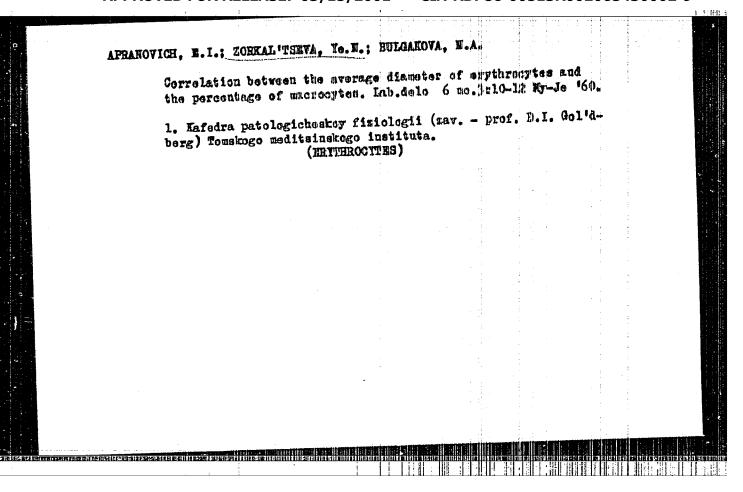
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1. Fiziko-mekhanicheskiy institut AN UkrSSB. Submitted S.cember 21, 1964.



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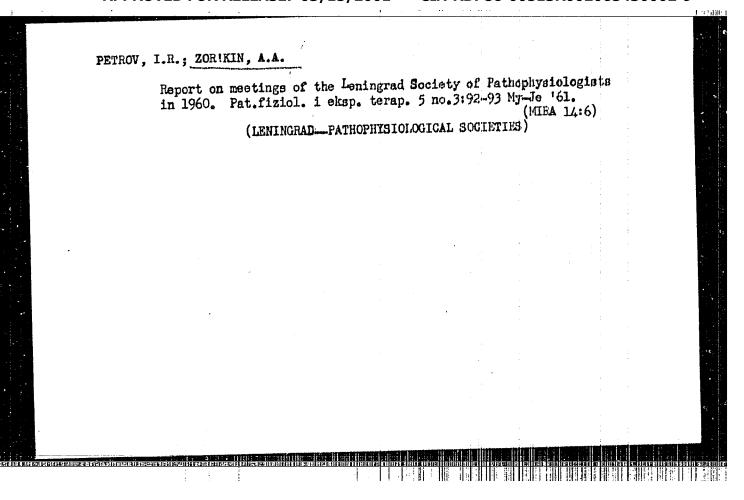
ZOR'KIN, A.A., kand.med.nauk

Influence of burns on hemodynamics and respiration in snimals
with radiation sickness. Voen.-med.zhur. no.9:27.30 S '61.

(MIFA 15:10)

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(RESPIRATION)

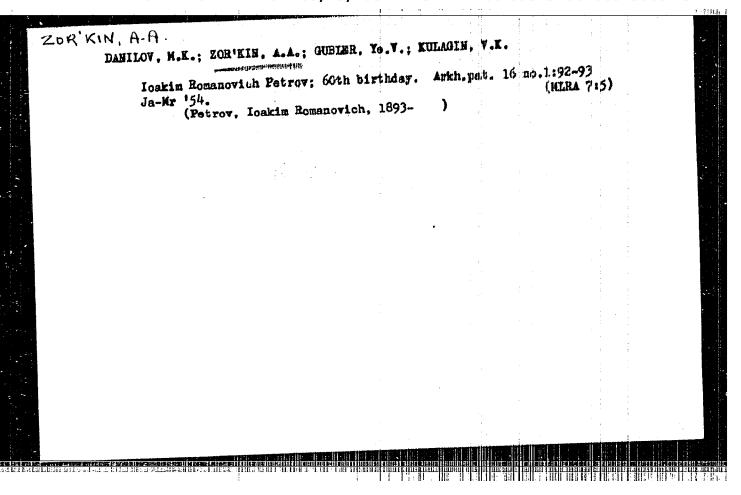


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1. Nachal'nik kafedry patologicheskoy fiziologii Voyenno-meditzinskoy ordena Lenina akademii im. S.M. Kirova, chlen-korrespondent AMN SSSR (for Petrov).

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ZOR'KIN, A.A., doktor med. nauk, otv. red.; CHOYMER, h., red.

[Reports of the 22d Regular Scientific Secsion of the Kishinev Medical Institute on the Results of Scientific Research Work for 1963] Doklady 22-i ocherednoi nauchmoi sessii Kishinevskogo meditsinskogo instituta po litogam Nauchmoissledovatel skoy raboty za 1963 god. Kishinev, Kartia moldoveniaske, 1964. 251 p. (MIRA 18:3)

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ZOR'KIN, A.A.
USSR/Medicine - Physiology FD-935 Pub 33-18/29 Card 1/1: Petrov, I. P. and Zor'kin, A. A. Author : New methods of examining depressor reflex from baroreceptors of sino-Title carotid zone : Fiziol. zhur. 40, 357-358, May/Jun 1954 Periodical : Ye. A. Moyseyev's method of determining depressor reflex from baro-Abstract receptors of sino-carotid zone has many defects. The improved method proposed by the author of this article makes use of vascular obturator to increase pressure in the sino-carotid zome. Experiments conducted on dogs proved superiority of this method over Ye. A. Moyseyev's method. The new method may also be used in exciting baroreceptors of other vessels. Diagrams. Table. : Chair of Pathological Physiology, Military Medical Academy imeni Institution S. M. Kirov : April 6, 1953 Submitted

PETROV, I.R., prof. (Leningrad, ul. Lebedeva, d.10-a, kw.18); ZOR'KIN, A.A., dotsent

Use of hypothermia of the head in preventing sequelae of total cerebral anemia. Vest. khir. no.12:34-39 '62.

(MIRA 17:11)

1. Iz kafedry patologicheskoy fiziologii (nachalinik - prof. I.R. Petrov) Voyennomeditsinskoy ordena Lenina akademii imeni Kirova. 2. Deystvitel'nyy chlen AMN SSSR (for Petrov).

ZOR'KIN, A.A., doktor med. nauk, otv. rad.; SHOTHER, A., red.

[Reports of the 22d Regular Scientific Session of the Kishinev Medical Institute on the results of scientific Session of the Kishinev Medical Institute on the results of scientific research work in 1963; dedicated to the 40th anniversary of the establishment of the Moldavian S.S.R. and founding of the Communist Farty of Moldavia Doklady 22-i ocherednoi nauchnoi sessii Kishinevekogo meditsinskego instituta po itogan nauchnodiseledovateliskoi raboty za 1963 god; posviashchaetsia 40-letiin obran vannita Moldavskoi SSR i sozdanila Kommunisticheskoi partii Moldavii. Kishinev, Kartia moldoveniaske, 1964. 251 p. (MIEE 1815)

1. Kishinev. Gosudarstvennyy meditainskiy institut.

29727 S/057/61/031/006/011/019 B116/B203

9,1300

AUTHORS:

Dmitriyev, V. M., Zorkin, A. F., Lyapunov, N. V., and

Sedykh, V. M.

TITLE:

Approximation method for calculating the eigenfrequencies

of irregular limit resonators

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, v. 31, no. 6, 1961, 712-716

TEXT: The approximation method described in the present paper is based on the use of the cross-section method, and yields rather simple and sufficiently accurate formulas for determining the resonance wavelengths of irregular limit resonators. First, the problem is formulated and a general solution is given. The authors consider a section of a tapered irregular waveguide (Fig. 1) made of an ideally conducting metal. The other end of the waveguide is assumed to be closed with a stopper; the waveguide is excited at that end. At certain frequencies, such a device will behave like a resonator. The relation between the reconance wavelengths of such a resonator and its dimensions is to be determined. The cross-section method developed by B. Z. Katsenelenbaum (Ref. 3: DAN SSSR,

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2,1727

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Approximation method for calculating ...

102, no. 4, 1955) is used for the calculation. The authors study an element lying between the planes S_1 and S_2 and the lateral resonator surface, assuming that the lateral surface only slightly differs from a cylindrical one. Then, $dz/dt = v_{ph}(z)$ (1) holds with sufficient accuracy, where $v_{ph}(z) = v_o / 1 - [\lambda_o/\lambda_c(z)]^2$ is the phase velocity of the wave in the cylindrical waveguide; $\lambda_c(z)$ is the critical wavelength of the cylindrical waveguide; and λ_o is the wavelength in the free space. After separating the variables, (1) is transformed:

$$\int_{0}^{p\frac{\tau}{2}} dt = \int_{0}^{p\frac{\lambda_{A}}{2}} \frac{1}{v_{0}} \sqrt{1 - \left[\frac{\lambda_{0}}{\lambda_{e}(z)}\right]^{2}} dz.$$
 (2)

where λ_d is the wavelength in an irregular limit waveguide, T is the oscillation period, p = 1, 2, 3, ... It is assumed that the critical cross section totally reflects the electromagnetic waves like a netal wall.

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Approximation method for calculating ...

In this case, the resonance condition reads: $\lambda_0 = \lambda_1 = \lambda_1 (z) \frac{\lambda_1}{2}$. (3), $\lambda_p = \lambda_p$ is the resonance wavelength of an irregular limit resonator. If $\lambda_c(z)$ is known, the resonance wavelengths can be determined from (2) and (3). $\lambda_c(z)$ must be determined separately for every resonator shape. Now, the authors study a conical limit resonator of any cross-section shape. With the use of the similarity of the resonator cross sections, they obtain the formula $\frac{p \lambda_c(0)}{2d} = \alpha - \arctan \alpha \quad (6), \text{ where } \alpha = \frac{|\lambda_c(0)|}{|\lambda_c(0)|} = 1$

If p, $\lambda_c(0)$, and d are known, it is possible to determine a, and, therefore, also the resonance wavelength, because $\lambda_p = \lambda_0 = \frac{\lambda_c(0)}{\sqrt{1+x^2}}$. (7),

where $\lambda_{\rm c}(0)$ is the critical wavelength of the cylindrical waveguide of the cross-section S; d is the cone height. With the use of (6) and (7), it is possible to determine the resonance wavelengths of conical resonators of any cross-section shape (H, Π , and others) for which the critical Card 3/6

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Approximation method for calculating ...

wavelength is known. Conical resonators of rectangular and round cross section are studied as examples. For the former case,

$$\frac{abp}{d\sqrt{(mb)^2 + (na)^2}} = a - \arctan \alpha \qquad (8) \text{ and}$$

$$\lambda_{r} = \frac{2ab}{\sqrt{(mb)^{2} + (na)^{2}} \sqrt{1 + a^{2}}}$$
and (7). For the latter case,
$$\frac{np \tan \theta}{u_{mn}} = a - \arctan \alpha \quad (10) \text{ and}$$

and (7). For the latter case,
$$\frac{\pi b}{u_{mn}} = a - \arctan \alpha$$

$$\lambda_{r} = \frac{2\pi a}{u_{mn}} \quad (11) \text{ are written down for E waves, and}$$

$$\frac{p\pi \tan \theta}{u_{mn}^{\dagger}} = \alpha - \arctan \alpha \quad (12) \text{ and } \Lambda_{r} = \frac{2\pi\alpha}{u_{mn}^{\dagger}} \quad (13) \text{ for H waves,}$$

where u are the roots of the Bessel function and u are the roots of the derivative of the Bessel function. To check the formulas obtained, the authors determined the resonance wavelengths of rectangular, irregular

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Approximation method for calculating ...

limit resonators by experiment. They examined two resonators with a = 20 mm, $a_1 = 16.6 \text{ mm}$, $d_4 = 280 \text{ mm}$, a = 23 mm, $a_1 = 17 \text{ mm}$, and d_1 = 120 mm, respectively, where the narrow cross section was unchanged over the length and equal to b = 10 mm. The resonators were excited by the H₁₀ wave. Since A does not depend on b in this case, formulas (8) and (9) could be checked with these resonators. Measurements were made by the "sucking-off" method in the three-centimeter band. The experimental test showed that the formulas obtained are usable for the practical calculation of conical limit resonators. There are 4 figures, 3 tables, and 5 Soviet-bloc references.

ASSOCIATION: Khar'kovskiy gooudarstvennyy universitet im. A.M. Gor'kogo

(Khar'kov State University imeni A. M. Gor'kiy)

SUBMITTED:

July 27, 1960

Card 5/6

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065430002-9

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77308 SOV/57-50-2-5/18

AUTHORS:

Sedykh, V. M., Zorkin, A. F.

TITLE:

Propagation of a Quasi-Circular Electrical Wave

in a Cross-Shaped Waveguide

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, 1960, Vol 30, Nr 2, pp

pp 159-164 (USSR)

ABSTRACT:

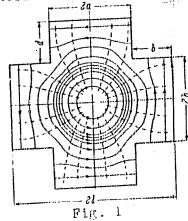
Previously Sedykh (Patent Nr 108439) and Espledovaniye krestoobraznogo volnovoda, Uch. zap. Khdu, Trudy radiofizicheskogo fakyl'teta, 4, 1959) investigated waveguides with a cross-shaped cross section (Fig. 1) and discovered that such waveguides have values of parameters which are intermediate between those of rectangular and circular waveguides. The authors expected that the quasi-circular wave existing in such a waveguide can be considered to be a H_{D1} wave of the circular waveguide transformed by means of a smooth

transition from the circular to the cross-shaped

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77308 **50**7/57-30-2-5/18

cross section. They hoped that such a quasi-circular wave would have negligible losses and would be free from the E_{11} satellite existing in the circular waveguide.



During calculations the authors worked with a symmetrical configuration (a=b=d=h) since in this case the quasi-circular wave configuration was

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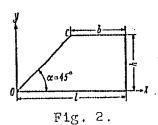
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closest to a circular one. To find the critical frequency \mathbf{f}_{c} they needed to evaluate the waveguide eigenvalue $\boldsymbol{\mathcal{H}}$:

$$x = \frac{2\pi f_c}{c} = \frac{2\pi}{\lambda_c},$$

where λ_c = critical wavelength of the wave. At this point they noted that instead of solving equations for the cross section on Fig. 1, one can use the much simpler geometry shown on Fig. 2.



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77368 sov/57-30-2-5/18

This simpler waveguide form was already solved by Molov and Funtova (Kriticheskiye chastoty ochen' nizkih volnovodov trapetsiyevidnogo secheniya, Uch. zap. MGPI im Lenina, 101, 1957; Kriticheskiye chastoty volnovoda s secheniyem v vide pryamougol'noy trapetsii, Uch. zap. MGPI im. Lenina, 101, 1957), and the authors used their Eq. (3) to get the critical frequency:

$$(\cos ax - \cos 2ax) \left\{ \left[\sin a \left(x - \xi_1 \right) + \sin 2a \left(x - \xi_1 \right) \right] \left[\left(x - \xi_1 \right)^2 - \left(\frac{\pi}{a} \right)^2 \right]^{-1} \times \right\}$$

$$\times (\mathbf{x} - \boldsymbol{\xi}_1) + \left[\sin a \left(\mathbf{x} + \boldsymbol{\xi}_1 \right) + \sin 2a \left(\mathbf{x} + \boldsymbol{\xi}_1 \right) \right] \left[\left(\mathbf{x} + \boldsymbol{\xi}_1 \right)^2 - \left(\frac{\pi}{a} \right)^2 \right]^{-1} \left(\mathbf{x} + \boldsymbol{\xi}_1 \right) =$$

$$= a\mathbf{x}^2 \left(\cos 2a\boldsymbol{\xi}_1 + \cos a\boldsymbol{\xi}_1 \right) \left[\boldsymbol{\xi}_1^2 - \left(\frac{\pi}{a} \right)^2 \right]^{-1}. \tag{3}$$

where
$$x^2 = \xi_n^2 - 1 - \eta_n^2$$
, $\eta_n = n \frac{\pi}{a}$, $n = 0, 1, 2, ...$

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The authors claim that experimental verification showed that the value of the critical frequency

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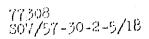
computed from (3) agrees very well with experimental results. As far as the damping constant is concerned, it is well known that it can be obtained using the conditions of Leontovich using equation:

$$\alpha = \frac{R_* \int_I |H_{1g}|^2 dI}{2R_0 \int_I |\mathbf{R}|\mathbf{H}^*|_F ds}, \text{ where } R_* = \sqrt{\frac{n_1 V_0}{n_1}}.$$
 (4)

Expanding the magnetic field as a series of products of trigonometric functions and using the first (n = 0) approximation, the authors computed

 σ for the case of a copper cross-shaped waveguide with σ = 58 \cdot 10 7 mho/m and a = b = d = h = 12.7 cm. The damping vs. wavelength curve is plotted as curve 1 on Fig. 3. The critical wavelength in this case was 42 mm. For comparison the same figure contains curve 2 which represents the damping constant for $H_{\rm Ol}$ in a circular copper

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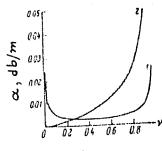


Fig. 3.

waveguide of 50-mm diam. Note the relative constancy of damping in a wide region of wavelengths in the case of the cross-shaped waveguide. Note also the possibility of working with larger values of the

 λ o/ λ $_c$ ratio. To check on the problem of satellites the authors calculated the critical wavelength of the wave whose field is represented

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"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065430002-9

Propagation of a Quasi-Circular Electrical Wave in a Cross-Shaped Waveguide

on Fig. 4. The computations were performed in the standard way using rectangular regions I and II of the waveguide. For the waveguide dimensions mentioned earlier, the critical wavelength came out to be 36.8 mm. This shows that there exists the possibility of propagation with low energy loss of quasi-circular waves in a cross-shaped waveguide without any satellite. There are 4 figures; and 7 Soviet references. Khar'kov State University imeni A. M. Gor'kiy (Khar'kovskiy gosudarstvennyy universitet imeni

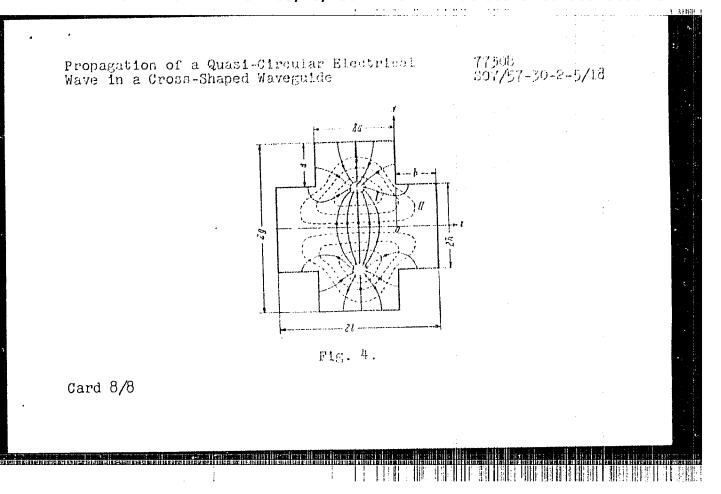
ASSOCIATION:

À. M. Gor'kogo)

SUBMITTED:

July 29, 1959

Card 7/8



"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065430002-9

s/058/63/000/002/061/070 A160/A101

AUTHOR:

Zorkin, A. F.

TITLE:

Dispersion equations for uniformly bent waveguides of a complex

cross-section shape with lugs on the cylindrical walls

PERIODICAL: Referativnyy zhurnal, Fizika, no. 2, 1963, 25, abstract 2Zh155 ("Uch. zap. Khar'kovsk. un-t", 1962, v. 121, Tr. Radiofiz. fak.,

5, 56 - 73)

Dispersion equations were obtained for uniformly bent H,Π , T and TEXT: cross-shaped waveguides by solving Maxwell's equations. These equations permit to find the azimuthal propagation constant as a function of frequency for any geometrical dimensions of the bend. Characteristic equations for calculating the critical frequencies are obtained as a particular case of the dispersion equations. When deriving the dispersion equations, the conditions for the agreement of the solutions at the division boundaries were obtained from the condition of equality of the exchange energy currents between the adjacent regions at each point of the separation surface. An experimental checking revealed that

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CIA-RDP86-00513R002065430002-9" APPROVED FOR RELEASE: 03/15/2001

Dispersion equations for...

S/058/63/000/002/061/070
A160/A101

the calculated critical frequencies adequately well coincided with the measured ones.

[Abstracter's note: Complete translation]

Card 2/2

S/05U/63/000/002/062/070 A160/A101

AUTHORS:

Zorkin, A. F., Tereshchenko, A. I., Vakhraneva, L. F.

TITLE:

Dispersion equations for uniformly bent waveguides of a complex

cross-section shape with lugs on the plane wall sides

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 2, 1963, 25, abstract 2Zh156 ("Uch. zap. Khar'kovsk. un-t", 1962, v. 121, Tr. Radiofiz. fak. 5,

74 - 83)

TEXT: On the basis of the solution of Maxwell's equations, dispersion equations were obtained for uniformly bent H, H, T and cross-shaped waveguides with lugs on the plane walls of the bend. The characteristic equations for determining the critical frequencies were obtained as a particular case of dispersion equations. The obtained equations are true for any bend radii. The calculations of the critical frequencies were experimentally checked. The checking confirmed the correctness of the theoretical conclusions.

[Abstracter's note: Complete translation]

Card 1/1

SEDYKH, V.M.; ZORKIN, A.F. Propagation of a quasi-circular electric wave in an H-shaped wave guide. Zhur.tekh.fiz. 30 no.2:159-164 F '60. (MIRA 14:8) 1. Khar'kovskiy gosudarstvennyy universitet im. A.M.Gor'kogo. (Electric waves) (Wave guides)

AM4033354

BOOK EXPLOITATION

:5/

Shubarin, YUriy Vasil'yevich; Zorkin, Anatoliy Fedorovich

Super-high frequency antenna measurements; antenna handbook (Antenny*ye izmereniya na sverkhvy*sokikh ehastotakh; antenny*y praktikum) Kharkov, Izd-vo KhGU, 62. 0170 p. illus., biblio., fold. diagrs. Frrata slip inserted. 5,000 copies printed. Textbook for students of radio departments at universities in the Ukrainian S.S.R.

TOPIC TAGS: microwave antenna, microwave antenna measurements, microwave antenna laboratory practice, microwave radiation measurement apparatus, director antenna, mirror antenna, lens antenna, slot antenna, surface wave antenna, polarized antenna, directivity pattern, aperture, slotted line, attenuator, amplifier, signal generator

purpose AND COVERAGE: The book is the second part of a text on microwave antennas and contains procedures for antenna measurements at microwave frequencies, a brief description of standard apparatus which can be used for the measurements, and also for practical laboratory antenna work. It is intended for students in radio departments of secondary and higher technical schools, and can also be used by engineering technical personnel working in antenna fields. The measurement procedures are written from a unified point of view. Chs. 1 and 2 were written by Yu. V.

Card: 1/2

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SEDYKH, V.M.; ZCRKIN, A.F.; DMITRIYEV, V.M.; LYAPUNCV, N.V.; YATSUK, L.P.

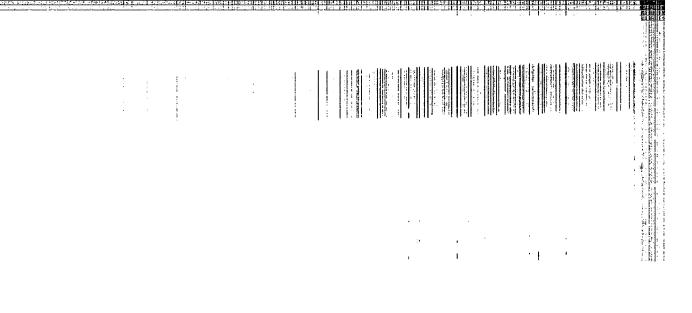
Parameters of H-shaped waveguides in the millimeter and centimeter range. Zhur. tekh. fiz. 31 no.6:699-703 Je *61.

(MIRA 14:7)

1. Khar'kovskiy gosudarstvennyy universitet imeni A.M. Gor'kogo.

(Wave guides)

(Microwaves)





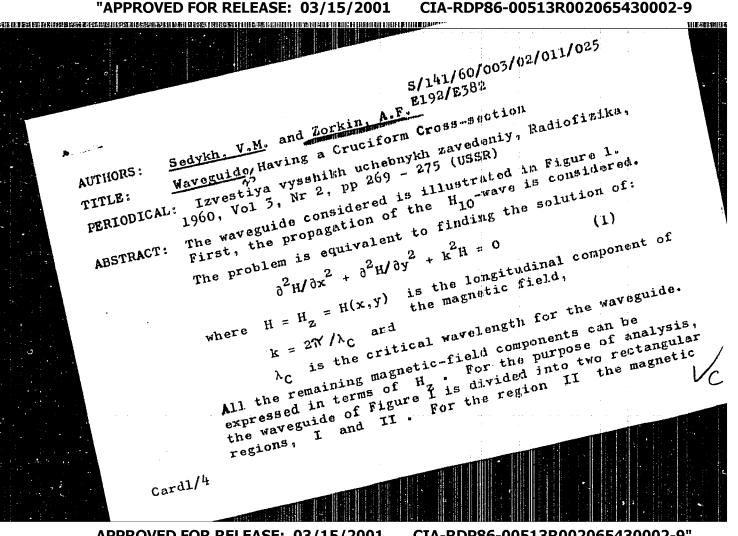
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SHUBARIN, Yuriy Vasil'yevich; ZORKIN, Anatoliy Fedorovich;
TEMESHCHENKO, A.I., kand. Flz.-matem. nauk, otv. red.;
KOVALEVA, Z.G., red.; TROFIMENKO, A.S., tekhn. red.

[Antenna measurements at superhigh frequencies] Antennye
izmereniia na sverkhvysokikh chastotakh; antennyi praktikun. Khar'kov, Izd-vo Khar'kovskogo univ., 1962. 170 p.

(MIRA 16:12)

(Antennas (Electronics)) (Radio measurements)



CIA-RDP86-00513R002065430002-9" APPROVED FOR RELEASE: 03/15/2001

5/141/60/003/02/011/022

Waveguide Having a Cruciform Cross-section E192/E382 field is given by Eq (4), while in the second region it is expressed by Eq (5). At the boundaries of the two regions the equations should satisfy the continuity conditions expressed by Eqs (6). The coefficients defined by Eqs (7) and (8) are now introduced. From the conditions of Eqs (6) it follows that the relationships between M and N, and Q and R are defined by Eqs (9) and (10). The coefficient can be evaluated from Eq (11), while the coefficients are given by Eq (13). Similarly R_0 and R_m are determined by Eqs (14) and (15). From the above it is seen that all the coefficients M can be expressed in if there exists an infinite system of infinite homogeneous equations whose determinant $\Delta_i = 0$. minimum root of the characteristic equation $\Delta = 0$ will correspond to the H₁₀-wave. The first-approximation results in the following expression for k:

Card2/4

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Waveguide Having a Cruciform Cross-section E192/E382

Having a Cruciform Cross-section
$$\cot g \left(bk \right) - \frac{h}{g} \left(tg \left(ak \right) + 2k \sum_{n=1}^{\infty} \frac{tg(ap_n) \left(sin(s_n h) \right)^2}{p_n} \right) = 0 \quad (16).$$

For the region I this can be written as Eq (17). In the case of the H_{20} -wave, the fields in the two mgions are expressed by Eqs (18) and (19). By applying the method indicated above, it is found that the formula for determining k is in this case given by Eq (20). Eqs (17) and (20) were employed to plot the graphs illustrating the dependence of the critical wavelengths on the parameter a and H20 (Figure 1) for the waves H₁₀, H₀₁ d = 4, 5 and 6 mm; the graphs are shown in Figure 2. The dependence of the critical wavelength on d for constant a is illustrated in Figure 3. For the case of the H₁₁-wave the boundary conditions are expressed by Eq (21) on the contour FAB and by Eq (22) on the contour ECDEF (Figure 1).

Card3/4

Waveguide Having RÉEEASE 103¢15/2001 E1 2014 1/60/003/02/01/1/602065430002-9"

The fields in the two regions are now expressed by Eqs (23) and (24). The expression for the wave number k is given by Eq (25). For the first region this can be written as Eq (26). From this it is seen that the equation has no solutions in this region. For the second region, Eq (25) can be written as Eq (27). This is walld for determining the critical wavelength. The evaluation of the maximum permissible power for the cruciform waveguide operating with the H₁₀-wave can be done by employing the method suggested by H. Barlow (Ref 6). this method it is found that for the waveguide with $2\ell = 23 \text{ mm}$, 2h = 10 mm, 2a = 10.2 mm and d = 4.56 mmthe maximum permissible power is 1 100 kW, There are 3 figures and 6 references, 2 of which are

ASSOCIATION: Kharikovskiy gosudarstvennyy universitet State University)

Card 4/4

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B116/B203

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AUTHORS: Sedykh, V. M., Zorkin, A. F., Dmitriyev, V. II., Lyapunov, N. V.,

and Yatsuk, L. P.

TITLE:

Parameters of H-shaped waveguides in millimeter and

centimeter wave bands

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 6, 1961, 699-703

TEXT: The authors divide the papers theoretically determining the parameters of H-shaped waveguides into two groups: (1) papers by foreign authors: S. Cohn (Ref. 1: Proc. IRE, 35, 783-788, August, 1947), K. Tomiyasu, L. Swern (Ref. 2: Proc. Nat. Electr. Cont., 10, 76-82, 1954), S. Hopfer (Ref. 3: Trans. IRE, MLT-3, no. 3, 1955), using the method of equivalent schemes; (2) papers by L. N. Deryugin (Ref. 4: Hadiotekhnika, no. 6, 1948), A. Ya. Yashkin (Ref. 5: Uch. zap. MGPI imeni Lenina, 101, 1957), N. F. Funtova (Ref. 6: Uch. zap. MGPI imeni V. I. Lenina, 88, 1954), using the more accurate electrodynamic method of determining the eigenvalue (critical frequency) of the H-shaped waveguide (working on the basic wave H₁₀). The authors of the present paper calculated the main parameters Card 1/5

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Parameters of H-shaped waveguides ...

of H-shaped waveguides: the critical frequency, the damping constant, the peak power, and the characteristic resistance, from a uniform standpoint, on the basis of the solution of the field equations. They present the scheme of calculation, the final formulas for calculating the parameters of H-shaped waveguides, and numerical data of these parameters for some H-shaped waveguides developed and tested at the Khar kovskiy universitet (Khar'kov University). When determining the critical frequency (the eigenvalue) %, they only study the two ranges I and II (Fig. 1), and

obtain

for the calculation of χ in first approximation. $p_n = \frac{\pi}{h}$; $\chi^2 = p_n^2 + s_n^2$; n = 0, 1, 2... In a similar way, they obtain the formula

 $\frac{\text{etg } xa}{x} + \frac{g \text{ etg } xb}{xh} = \frac{2}{gh} \sum_{\substack{n=1 \ x}} \frac{\sin^3 x_n g}{x^2} \frac{\text{etg } p_n b}{p_n}, \qquad (7)$ for an H_{20} wave. $S_n = \frac{\pi}{h} n$; $S_n + p_n = 2$; n = 0, 1, 2, ... In the practice, the H_{20} wave is the wave nearest to the basic mave (and

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Parameters of H-shaped waveguides ...

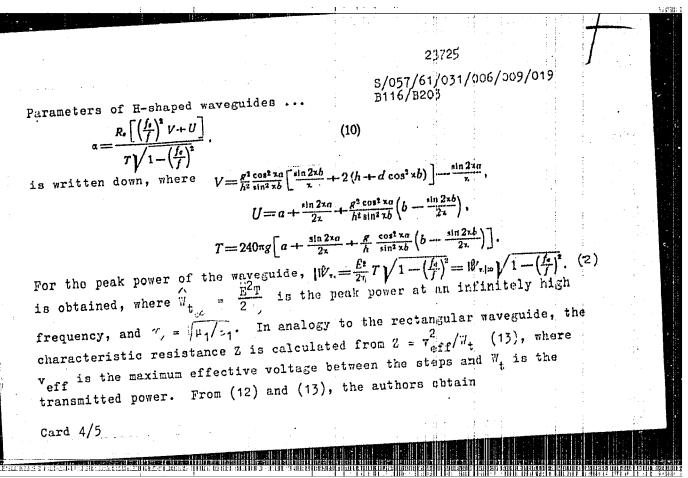
therefore the most dangerous one) for the dimensions of the cross section of H-shaped waveguides. Thus, the pass-band of the H-shaped waveguide is obtained by determining the critical frequencies of the waves $\rm H_{10}$ and $\rm H_{20}$

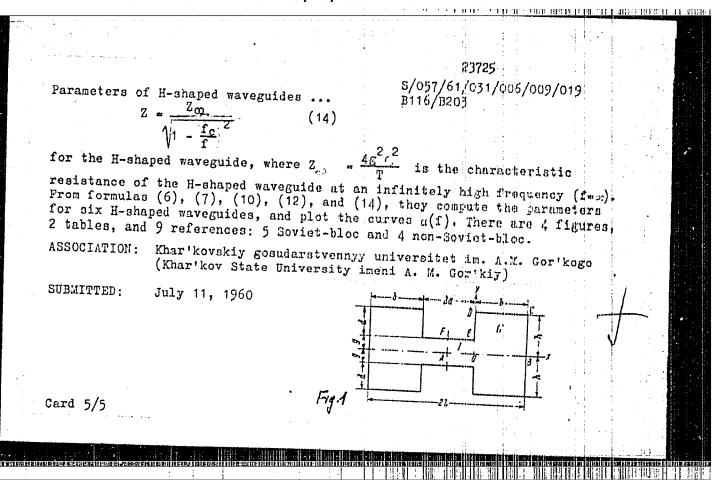
from (6) and (7). The other parameters of an H-shaped waveguide had been calculated in a paper by V. M. Sedykh (Ref. 7: Izv. vyssh. uchebn. zaved. LNO SSSR, Radiotekhnika, no. 3, 1959). Further studies, however, showed that more accurate results nearly equal to the test results were obtained by using the formula $W_* = \frac{1}{2} \text{Re} \int [\mathbf{E}\mathbf{H}^*] ds$. (8)

for determining the power transmitted by a waveguide of complicated cross section. In this case, the damping constant α at frequencies higher than the critical one can be determined from

$$\alpha = \frac{1}{2} \frac{R_s \int_{l} |H_s|^2 dl}{\text{Re} \int_{l} [EH^*] ds}.$$
 (9)

where $R_s = \sqrt{\frac{\pi f \mu}{\sigma}}$. For an H-shaped waveguide, Card 3/5





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SOURCE: Ref. zh. Fiz., Abs. 3Zh146

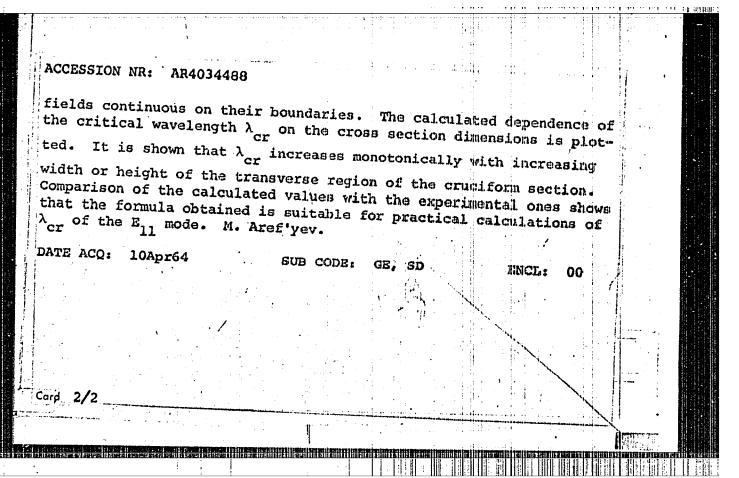
AUTHORS: Sedy*kh, V. M.; Zorkin, A. F.

TITLE: E₁₁ modes in cruciform waveguide

CITED SOURCE: Uch. zap. Khar'kovsk, un-t, v. 132, 1962, Tr. Radiofiz. fak., v. 7, 101-105

TOPIC TAGS: cruciform waveguide, critical wavelength, wave propagation, cruciform symmetrical waveguide, E₁₁ mode

TRANSLATION: The conditions are explained under which a type E₁₁ mode will propagate in a cruciform symmetrical waveguide. The wave equation relative to the longitudinal component of the electric field E₂ is solved by the method of partial regions and by making the



S/0058/64/000/003/H021/H021 SOURCE: Ref. zh. Fiz., Abs. 3Zh145 AUTHORS: Sedy*kh, V. M.; Zorkin, A. F. TITLE: Limiting power and characteristic resistance of cruciform waveguide CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. CITED SOURCE: Uch. zap. k

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ACCESSION:NR: AR4034487

S and C_1 are functions of the geometrical dimensions of the CW cross section, K_Z is the longitudinal wave resistance of the CW, b is the distance from the side wall to the boundary of the transverse region of the CW, and K is the eigenvalue of the CW (RZhFiz, 1961, 2Zh361). The breakdown region is determined by the ratio of the cross-section dimensions. It is shown that the CW has a larger electric strength than the corresponding rectangular waveguide. The characteristic resistance of the CW is $K = 2g^2 \cdot K_Z/S$ (g -- height of the waveguide) and is obtained by transforming the ratio of the effective voltage between the upper and lower walls section, averaged over the cycle. The characteristic resistance of the CW exceeds the characteristic resistance of the CW exceeds Aref'yev.

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Card 2/2

ACCESSION NR: AR4023753

8/0274/64/000/001/A057/A057

SOURCE: RZh. Radiotekhnika i elektrosvyaz', Abs. 1A360

AUTHOR: Zorkin, A. F.

TITLE: Fields in H-shaped and cruciform uniformly bent waveguides

CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 127, 1962, Tr. Radiofiz. fak., v. 6, 56-64

TOPIC TAGS: waveguide, waveguide wave propagation, field in waveguide, h shaped waveguide, cruciform waveguide, uniformly bent waveguide, potential function, field configuration

TRANSLATION: Wave propagation in H-shaped and cruciform waveguides which are uniformly bent in the H and E plane is investigated theoretically. Expressions are obtained for the potential functions of these waveguides, and substitution of these functions in the

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ACCESSION NR: AR4023753

wave equation yields a second-order differential equation. The latter is solved by the partial-region method, namely, by breaking down the waveguide transverse cross section into three rectangular regions, for each of which the differential equation is solved by separation of variables. The final dispersion equation is solved approximately. From the general expressions obtained for the fields in the investigated waveguides it is possible to determine the field configuration in the transverse cross section of the waveguide and the distribution of the field along the angle axis φ . The results obtained are valid also for N-shaped and T-shaped waveguides.

DATE ACQ: 03Mar64

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ACCESSION NR: AR4023754

5/0274/64/000/001/A057/A057

source: RZh. Radiotekhnika i elektrosvyaz', abs. 1A361

AUTHOR: Zorkin, A. F.

TITLE: Bend of H-shaped and cruciform waveguides in the H plane

CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 127, 1962, Tr. Radio-fiz. fak., v. 6, 65-70

TOPIC TAGS: waveguide, bent waveguide, bent waveguide junction, h shaped waveguide, cruciform waveguide, generation of higher modes, reflection in waveguide junction

TRANSLATION: Expressions are obtained for the modulus and phase of the reflection coefficient of a uniform bend of an H-shaped or cruciform waveguide coupled to two semi-infinite straight waveguides. The formulas are obtained for the case when only the fundamental

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ACCESSION NR: AR4023754 mode propagates along the straight and bent waveguides (\mathbb{H}_1 in the straight waveguide and \mathbf{E}_1 in the uniformly bent one). At the junction of the straight and bent waveguides the incident wave is partially reflected and partially transmitted through the bent waveguide. Higher-modes arise near the junction. The amplitudes of the reflected waves are determined from the expressions for the fields in the uniformly bent H-shaped and cruciform waveguides (see Abstract 1A360) under the condition that the transverse components of the electric and magnetic fields must be continuous in the junction planes. The formulas obtained are valid also for II-shaped and T-shaped waveguides. Bibliography, 5 titles. M. B. 03Mar64 DATE ACQ: SUB CODE: GE, CO 00

ACCESSION NR: AR4023755

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SOURCE: RZh. Radiotekhnika i elektrosvyaz', Abs. 1A362

AUTHORS: Sedy*kh, V. M.; Zorkin, A. F.

TITLE: Limiting power and characteristic resistance of cruciform waveguide

CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. 7, 96-100

TOPIC TAGS: waveguide, cruciform waveguide, limiting power, maximum power rating, characteristic resistance, wave resistance

TRANSLATION: The calculation of the limit of the H₁₀ mode power begins with the breakdown field intensity. The cruciform waveguide is divided into regions of two types; expressions for the transverse components of the electric and magnetic field intensities in terms

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of two types is calcul-	components and for the limiting power are ob- on. The limiting power for cruciform waveguides ulated for a frequency of 10 %c and is found to					
be larger than for the of the breakdown power is presented. Bibliom	correspond	frequency o	f 10 Gc and	i is found	to	
of the breakdown power is presented. Bibliogr	and of the	wave resis	ular wavego tance arair	lide. A p	lot	
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SOURCE: RZh. Radiotekhnika i elektrosvyaz', Abs. 1A363

AUTHOR: Sedy*kh, V. M.; Zorkin, A. F.

TITLE: E modes in a cruciform waveguide

CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radio-

TOPIC TAGS: waveguide, cruciform waveguide, longitudinal electric field, critical wavelength, cutoff wavelength, cruciform resonator,

TRANSLATION: Conditions under which an E mode can propagate in a cruciform waveguide are investigated; the $E_{f 11}$ mode critical frequency is calculated as a function of the transverse waveguide dimensions.

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Waves with longitudinal electric field components can be used in devices operating on the principle of interaction between an electron beam and the field. A characteristic equation is derived and solved approximately. Plots of λ against the dimensions of the waveguide projections are constructed. The critical wavelength increases monotonically with increasing height and width of the projections of the cruciform waveguide. An experimental determination of λ in a cruciform resonator, excited by a post located along the waveguide axis perpendicular to the transverse cross section plane, has confirmed the correctness of the calculations. Bibliography, 2 titles. N. B.

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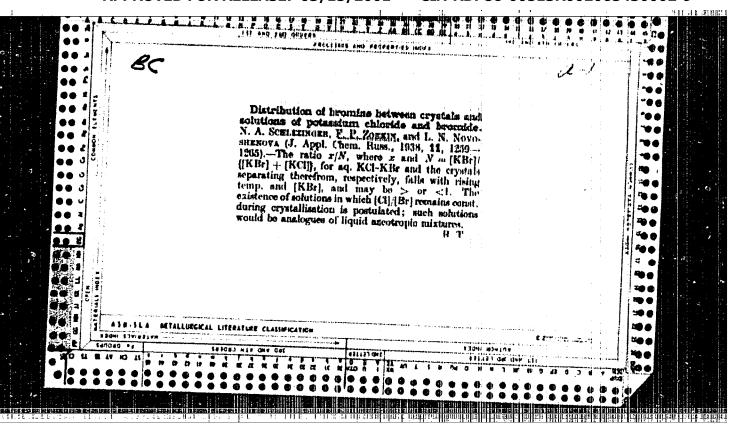
1. SHLEZINGER, N.A.; ZORKIN, F.P.

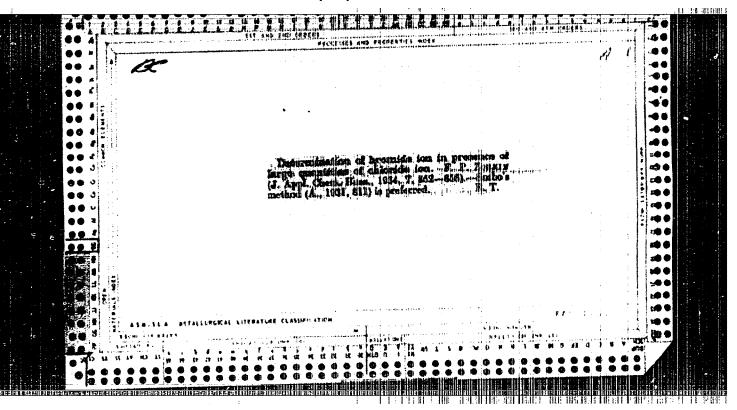
2. USSR (600)

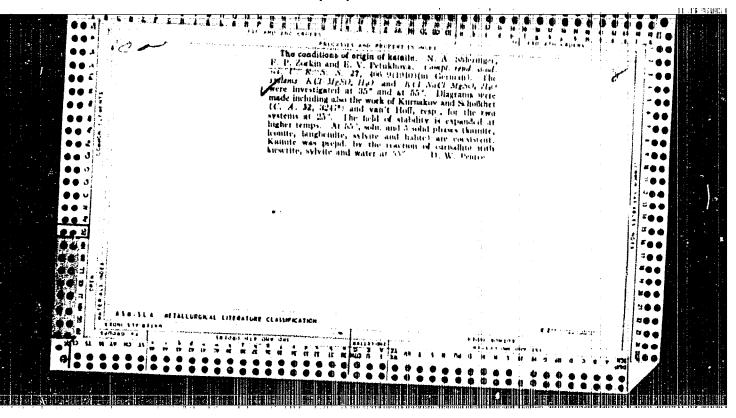
"Experimental Proof of the Thermodynamic Theory of Mixed Crystals," Zhur. Fiz. Khim.,

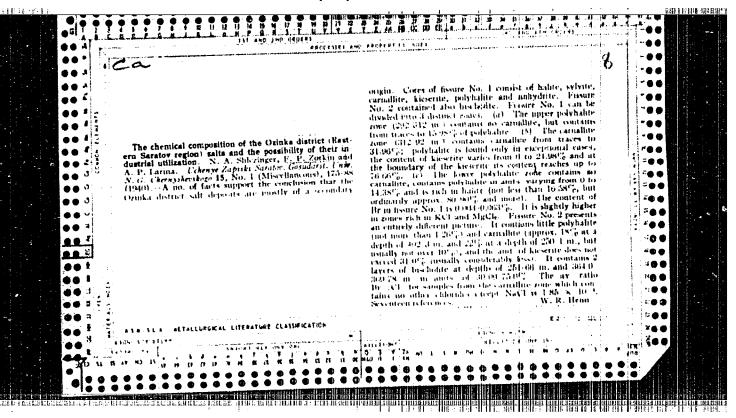
13. No 10. 1939. Chair of Physical and Colloidal Chemistry. Received 5 May 1939.

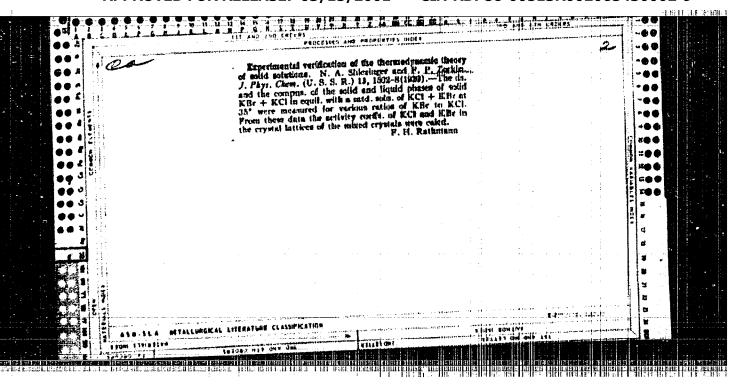
9. Report U-1615, 3 Jan. 1952

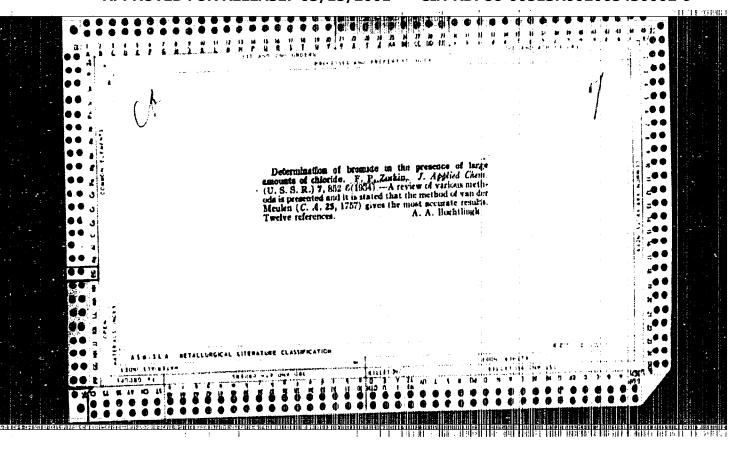


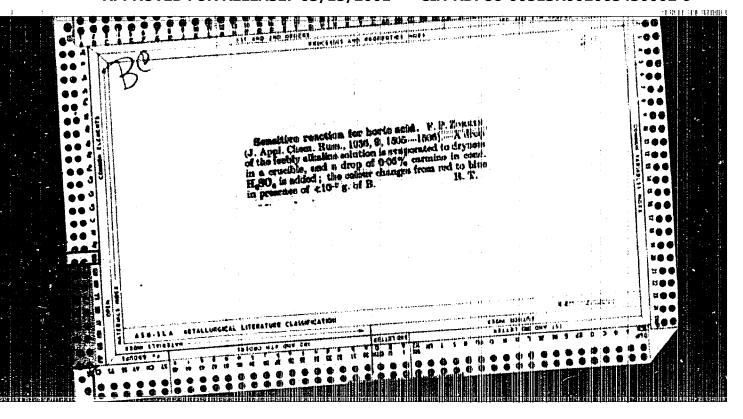


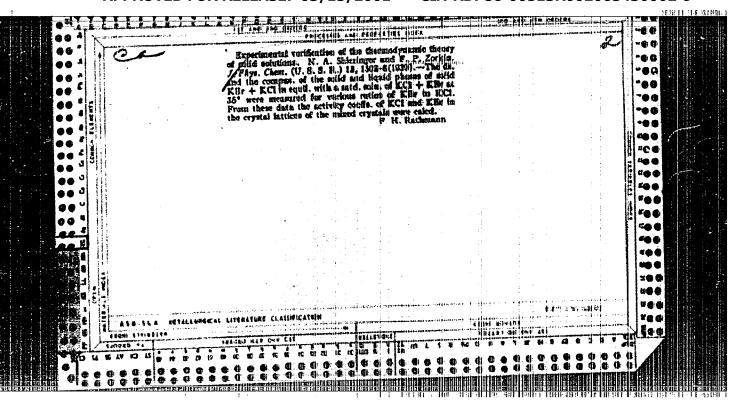


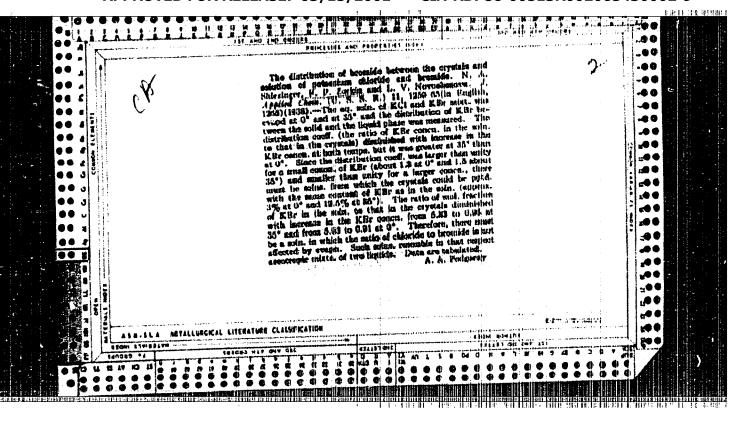












LUK'YANOV, V.I.; KHORKHOT, A.Ya.; ZORKIN, G.N.; HORMANN, B.B.; PLESHKOV, L.Ye.; LYTKIN, K.F.; KOZHETNIKOV, O.A.; THUCHIN, N.A.; ORLOV, V.V.; ZLATOLINSKIY, V.N.; MAKHOV, M.S.; RUK 27 ISHNIKOV, I.D.; SHITOVA, L.N., red.izd-va; OSENKO, L.M., tekhni.red.

[Instructions for drafting general plans of industrial enterprises] Ukazaniia po proektirovaniiu general nykh planov promyshlennykh predpriiatii. Odobreny Gosudarstvennym komitetom promyshlennym kom

1. Akademiya stroitel stva i arkhitektury SSSR. Institut gradestroitel stva i rayonnoy planirovki. 2. Akademiya stroitel stva
i arkhitektury SSSR, Nauchno-issledcvatel skiy institut gradestroitel stva i rayonnoy planirovki (for Luk yanov). 3. Akademiya
stroitel stva i arkhitektury USSR, Nauchno-issledcvatel skiy institut
gradostroitel stva (for Khorkhot). 4. Giproaviapron (for Zorkin,
Normann). 5. Gosudarstvennyy soyuznyy institut po proyektirovaniyu
metallurgicheskikh zavodov (for Fleshkor). 6. Gosudarstvennyy
institut po proyektirovaniyu zavodov tyazhelugo mashinostroyeniya
(for Lytkin, Kozhevnikov). 7. Gosudarstvennyy proyektnyy institut
No.1 (for Temchin). 8. Gosudarstvennyy proyektnyy institut stroitel noy promyshlennosti (for Orlev, Zlatolinskiy). 9. Gosudarstvennyy
proyektnyy institut po promyshlennomu transportu (for Makhov,
Rukavishnikov).
(Industrial plants---Design and construction)

LUK'YAHOV, V.I.; MYSLIH, V.A.; SHMEYEROV, A.I.; KHOHKHOT, A.Ya.;
YELENSKIY, M.S.; KER'HIKHOYA, O.M.; PLESHKOV, L.Yo.; ORLOW, V.V.;
ZLATOLINSKIY, V.M.; VISHNEVSKIY, F.L.; LAPSHREKOV, P.G.; MAKHOV.
M.S.; RUKAVISHHIKOV, I.D.; LYTKIH, K.F.; KOZHHIVNIKOV, O.A.;
ZORKIH, G.M.; HORMAH, B.B.; TUMANOV, H.S.; SKEEBRYANIKOV, S.M.;
VOLKOV, M.G.; HOVIKOV, P.G.; FRIDBERG, G.V., insh., red.ind-va;
GELINSON, P.G., tekhn.red.

[Designing chief plans for industrial plants; principal methods]
Proektirovanie general nykh planov promyshlennykh predpriiatii;
osnovnye polozheniia. Koskva, Gos.isd-vo lit-ry po stroit.,
arkhit. i stroit.materialam, 1960. 103 p.

(KIRA 13:6)

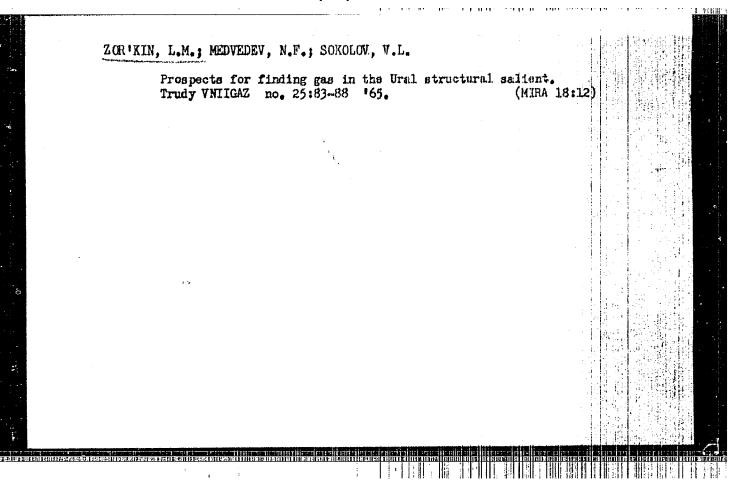
1. Akademiya stroitel'stva i arkhitektury SSSR. Institut gradostroitel'stva i rayonnoy planirovki. 2. Hauchno-issledovatel'skiy institut gradostroitel'stva Akademii stroitel'stva i arkhitektury USSR (for Khorkhot, Yelenskiy, Hel'nikhova). 3. Gosudarstvennyy institut proyektirovaniya netallurgicheskikh navodov (Gipromez) (for Pleshkov). (Continued on next card)

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ZCR'KIN, L.M.; KRICHEVSKIY, G.N.

Prospects for finding gas and conditions governing the formation of Neogene gas pools in the Caspian Lowland.

Trudy VNIIGAZ no. 25:40-45 '65. (MIRA 18:12)

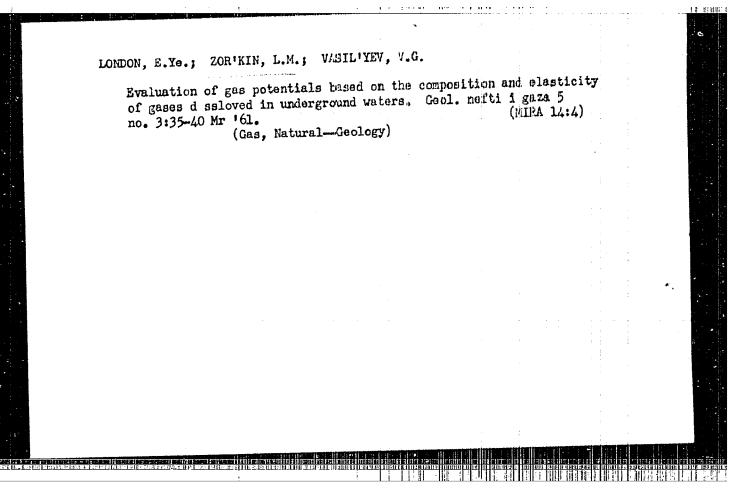


ZCR'KIN, L.M.; PETSYUKHA, Yu.A.; STADNIK, Ye.V.; YAKOVLEV, Yu.I.

Gas saturation in the formation waters of the Lower Carboniferous and Upper Devonian carbonate sediments in the southeastern part of the Russian Platform. Trudy VNIIGAZ no. 25:88-94 165. (MIRA 18:12)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430002-9"

ZOR'KIN, L.M. First data on the chemical composition and gen saturation of the reservoir waters of the salt-dome region of the Volga-Ural interfluve. Neftegaz. geol. i geofiz. no.4:31-35 °64° (MIRA 17:6) 1. Vsescyuznyy nauchno-issledovatel'skiy institut prirodnogo gaza.



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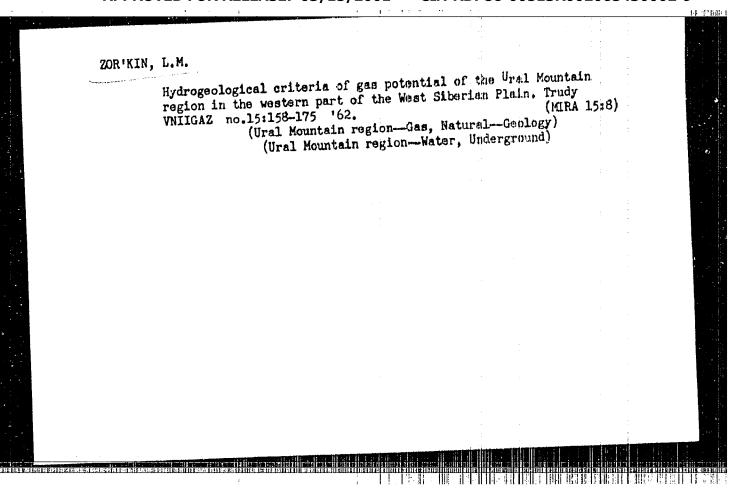
Gas saturation of the reservoir waters of the sediments of the Middle Carboniferous of the southeast of the Russian Platform in connection with an evaluation of the prospects for finding oil and gas. Neftegaz. geol. i geofiz. no.9:41-44 (MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnogo gaza.

SPEVAK, Yu.A.; STADNIK, Ye.V.; ZOR'KIN, L.M.

Composition and elasticity of the dissolved gases of the Mesosoic sediments of the Karpinsk Range. Geol. neftd i gaza 8 no.11: 37-41 N '64. (MIRA 17:12)

1. Vsesoyuznyy nauchno-issledovateliskiy institut prirodnogo gaza,



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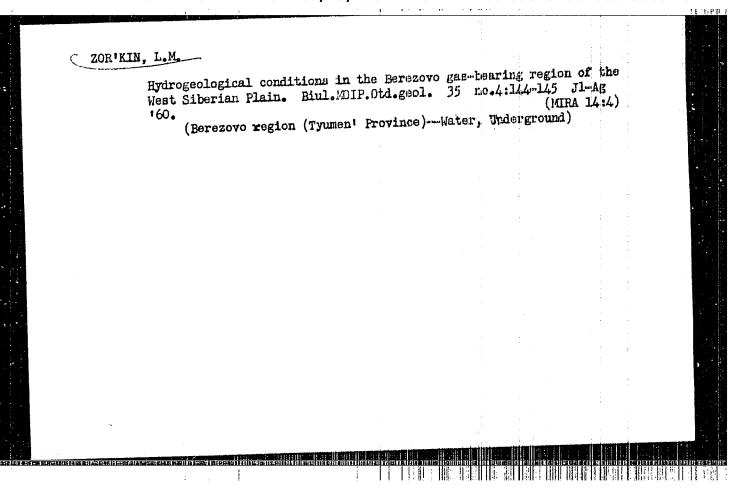
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ZOR'KIN, L.M.

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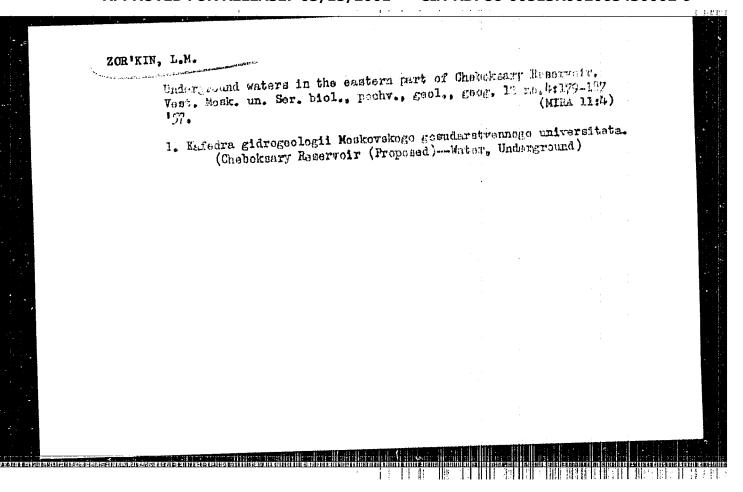
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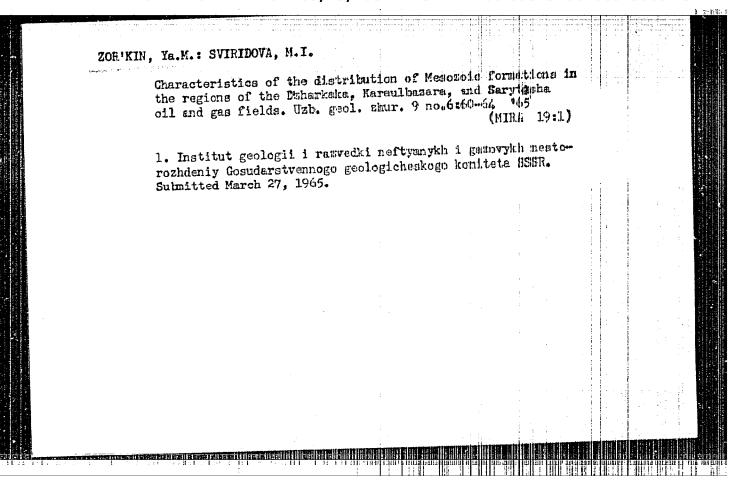
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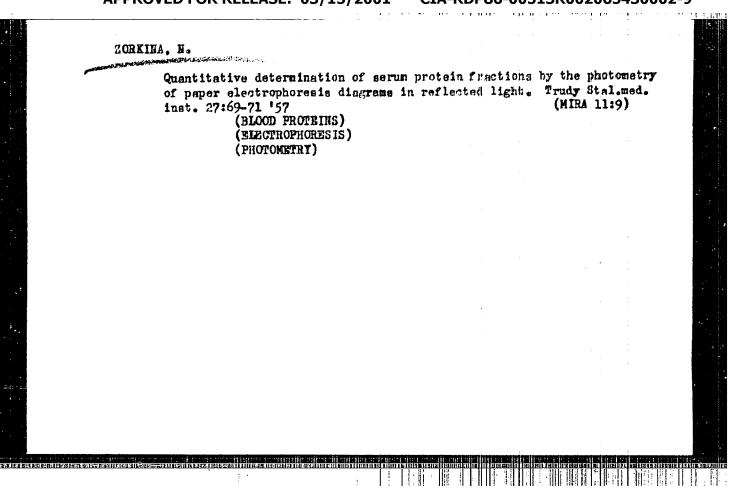
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